# THE TECH
## DAILY

VOL. XXIX. NO. 59. BOSTON, MASS., TUESDAY, DECEMBER 7, 1909 PRICE ONE CENT


## PROF. SEDGWICK BEFORE SOCIETY OF ARTS

### Speaks On Sanitary Disposal Of City Wastes---Stereopticon Used

Yesterday evening Prof. Sedgwick lectured on the "Sanitary Disposals of City Wastes." Prof. Sedgwick has a national reputation, and was able to make his lecture interesting, as well as instructive. the subject was divided into two general parts, gaseous wastes, and solid wastes. Professor Sedgwick discussed the smoke nuisance, sewage disposal, and the disposal of ashes, paper, and garbage.

It was the six hundred and sixty-third meeting of the Society, and the beginning of the forty-ninth year. Dr. Maclarin presided and first called on Mr. Litchfield, the secretary, for the report of the last meeting. Some slight business was transacted, the list of applicants for membership read, and then Dr. Maclaurin introduced the speaker. He said that the object of the Society was to spread interest in science and its practical applications. The question of wastes is one of the most important ones before the public. In this particular subject of sanitation Technology is taking a leading part, and Prof. Sedgwick is too well known to need introduction. Prof. Sedgwick then took the platform.

We live in an age of cities. Cities are big organisms, and breathe out impure air and create waste material as people do. The problem of taking care of these wastes is very important, but not one in which great interest is taken. Only about fifty people were present, but the lecturer hoped the audience was few and select. It is quite natural that this question of wastes should not be popular to most people, but to the scientist and philosopher they are.

The first idea to be considered is the air supply, an item perhaps overlooked by many. Cities are, however, burning up tons of oxygen and pouring waste gases into the air. Our many chimneys pour smoke and dust into the air. There can be little danger of the supply of oxygen giving out, as the many plants are constantly renewing the supply. Dreamers have suggested pipelines to carry away the gases. The most practical help to diminish the nuisance is the use of high chimneys, leaving the air below pure. We must have smoke, but the nusance can be lessened a great deal by proper public spirit and legislation. Cleveland has bettered her condition 70 per cent. With the smoke, some sulphurous acid is being made, and this is very detrimental to health. Slides were thrown on the screen, showing the improvement that had been accomplished in Boston.

The second large item to be considered is liquid waste, i. e., the sewage. Boston has a very good drainage system. In 1883 the State Drainage Commission suggested draining into some marsh. It was decided however, to use the harbor, and this is the better of the two methods. But Boston will not indefinitely coninue to pollute the harbor which is one of its greatest attractions. There is a sewage research experiment station at the Cow Pasture under the supervision of the Institute, probably the only one of its kind in the world. Its work has been favorably commented on abroad, and is a national factor. Mr. Mills of the corporation has been very influential in this work, and in time means will be found of purifying the waste, at least in a crude way, be-

(Continued on page 3.)

## 105th ANNIVERSARY OF THE BIRTH OF WILLIAM BARTON ROGERS

### Founder And First President---He Gave His Life To Build The Institute

WILLIAM BARTON ROGERS.

One hundred and five years ago today William Barton Rogers was born. A friend Agassiz and Huxley and other leading men, he was one of the foremost educationalists of his time. Besides founding the Institute he prepared the petition to the Massachusetts legislature and led the movement which resulted in the present buildings and in building and organization of the Boston Society of Natural History, in the Boston Museum of Fine Arts, and, more indirectly, in Trinity Church and the Boston Public Library.

The following is a life of President Rogers writing for the Tech of December 7, 1904 by James Phinney Monroe 1882:

William Barton Rogers founder and first president of the Institute, was born in Philadelphia, December 7, 1804. The second son of Patrick Kerr Rogers, he and his three brothers, all distinguished men of science were educated at the College of William and Mary where their father was Professor of Natural Philosophy and where William, at the age of 24 succeeded him.

Seven years later William Rogers was called to a similar chair in the University of Virginia. In the same year he was appointed head of the geological survey of Virginia, his brilliant work in science having given him international reputation.

In 1846 he and his brother Henry formulated a "Plan for a Polytechnic School" in Boston, which much influenced the Lawrence and Sheffield Scientific Schools, founded—in connection with Harvard and Yale respectively—not long thereafter.

Convinced, however, that the educational and industrial conditions of the time could be met only by an independent school, Professor Rogers, soon after coming to Boston in 1853, joined the movement already begun by leading merchants and manufacturers of the city for the creation of such an institution; and from 1859 until his death—although for the greater part of that time an invalid—he gave his eloquence, his untiring energy, his rare wisdom, and finally life itself to the founding and up building of the Massachusetts Institute of Technology.

Limited space forbids even an outline of this achievement for which involved the convincing of the public and the legislation, the raising, during a time of war, of large sums of money, the working of a new scheme of education, the creation of teaching laboratories, and the carrying forward against poverty, misunderstanding, and ceaseless opposition, of a costly and complicated educational experiment.

For President Rogers and his associates aimed to establish and did indeed create much more than a school of technical training. They created an institution where high purposes and honest work are fundamental; where youth expect to behave and to labor like men; where for a vague "imbibed" culture is substituted the real culture acquired through doing a hard task thoroughly, truthfully, and in a scholarly way; an institution which the freedom from snobbishness among its students, in the spirit of cooperation among these students, and between undergraduate and instructor, in the absence of rank lists, honorary degrees, and other old world inheritances, is a true democracy.

(Continued on page 2.)

## TO HOLD SECOND DINNER WEDNESDAY

### Mr. A. R. Williams To Tell Of His Experiences In Talk To T. C. A.

Over in East Boston stands the Maverick Church, once among the most elite of churches. Time, however, and the coming in of manufactures, moved its members to other sections of Boston; attendance fell off, and up to a year ago the parish was slowly going to decay. But in the latter part of November 1908, two men were called to take charge, T. W. Pattison and A. R. Williams. The former had obtained part of his training in London, England, and was at the time of call preaching in New Hampshire. Mr. Williams had for some time been a reporter for the New York Herald, but left to go into the ministry.

To-day things at East Boston are changed. In place of an attendance of sixty-five, the services draw over six hundred, and nothing can break the enthusiasm of the place.

Last summer the two ministers, to learn more of what the men of East Boston needed, put on working clothes and went looking for a job. Mr. Williams' description of this experience is interesting. The Christian Association has succeeded in getting his consent to give it at the second dinner next Wednesday night at six o'clock. Mr. Williams, like the speaker of last week, is seeing things every day which most of us know nothing about, and he too is a man who can talk straight.

Subject for the groups to follow the dinner is "Social Service." Men who remain for these discussions will take up with leaders the question, "What is your Conception of the Kingdom of God?" "How may Religious Life express itself?" "How did Jesus contribute to the social welfare of his time?" "What relation does social salvation bear to individual regeneration?" "How can you best be of service?"

For December the usual Sunday meeting of the Association will be suspended and every effort will be turned to making the Wednesday affairs successful and useful. There is something worth while in hearing Mr. Williams and in considering the social service question which he will bring to mind.

The menu will comprize an old-fashionen New England oyster stew dinner, winding up with coffee.

Register at the Cage.

## WIRELESS SOCIETY

Four members of the Wireless Society were at work yesterday afternoon on the receiving antennae at the station in the Union.

E. H. Guilford of the Station Committee is of the opinion that the receiving systems will be completed today. He requests all persons who have apparatus for the societies use to leave them for him at the Cage. The station can use condensors, tunning coils, receiving transformers, phones, etc. A number of sets are planned; and it is hoped that a few instruments will be forthcoming for the stations use.

### CALENDAR.

Tuesday, December 7.

8 P. M. Mech. Eng. Society Meeting.

Wednesday, December 8.

4.00, Hockey Practice at gym.
4.15, Gym Team Practice.
Basket Ball Practice.

# THE TECH.

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BOSTON, MASS., DECEMBER 7, 1909.


## "THE DOPESTER"

Hurrah for Basketball! Season opens to-day.

Quite a Basketball Schedule, Isn't it?

What do you think of Billings' hockey schedule.

Stankard of Waltham is still on the All-Interscholastic Team. Did you notice that.

Before Walter Camp announces his All-American Football Team, here is the "Dopester's" picking:

Kilpatrick of Yale ..———.. left end
Hobbs of Yale ..... left tackle
Andrus of Yale ..... left guard
Cooney of Yale ..... center
Tobin of Dartmouth ..... right guard
Fish of Harvard ..... right tackle
Smith of Harvard ..... right end
Sprackling of Brown ..... quarter
Coy of Yale ..... left half
Philbin of Yale ..... right half
Minot of Harvard ..... full back
Goebel of Yale ..... sub-lineman
Allerdice of Michigan .... sub-backfield

## BASKET BALL PRACTICE

A record squad was put through a lively practice yesterday afternoon at the gym. Enough men reported for four teams. Two teams played for about fifteen minutes, then the other two went at it. Finally two teams, picked from all the men, played for twenty minutes. These last two teams put up the fastest game seen at the gym this year.

A list of the men who reported are as follows:

Capt. Parker 1911, P. Wentworth 1910, F. G. Toute 1909, A. T. Bemmis 1912, W. B. Hargraves 1909, W. P. Merether 1913, R. W. Chandler 1912, R. B. Stone 1912, W. M. Pettingell 1909, W. Johnson 1912, C. E. Ell 1911. G. S. Darling 1913, G. A. Cahill 1913, C. Green 1910, G. R. Lord 1910, A. P. Horner 1913, R C. Stickney 1912, A. J. Freedman 1912, J. Balch 1913, S. C. Hart 1913.

**—When the projected $300,000 gymnasium of Syracuse is completed it will be the largest structure of its kind in the world.**

## WILLIAM BARTON ROGERS

(Continued from page 1.)

President Rogers' further aim was to have the Institute become eventually a university based upon pure applied science, but broadening into philosophy, a true university, moreover, where on the one hand, the advanced student should have every faculty for probing the deepest scientific problems, and where, on the other hand, the humblest mechanic should find educational help.

Dying at the graduation exercises, May 30, 1882, President Rogers lived only long enough to see the Institute emerge from the doubt and extreme poverty of the experimental stage. But he had forseen the extraordinary industrial developement of the last twenty years in which Technology men have had so large a place, and he had planned an institute broad enough to meet it. That those men have kept pace with the educational and industrial demands, that they have given the Institute it's high reputation among colleges, is because, through the teaching of the faculty and through the traditions of the school, they have been in level with the character of the Founder, who not only established the Institute of Technology, but who created also the Technology atmosphere and spirit. Other college founders, have endowed with money; Rogers gave something of far more worth—himself.

## HORNET'S NEST

"There's another letter for you Dick" said Cupid, looking up from his Bible, as Dick entered. "Seems to me you are getting a number of letters from The office these days, 'please explain—' is it not?"

"Well at last they've got it straightened out" said Dick smiling. "My petition to take Suggestive Thermodialectrics (41144) has been granted. A week ago I received a letter from the office stating that I could not take it, and in the very same mail a request to please explain my absence; all for one and the same course. I talked it over with Prof. P. V. Diagram and petitioned. Now that petition is granted. The omission of a few lectures on account of The Office is, of course, no loss to me."

"Well, I have one about as good," said Cupid, "Today I received my second notification, called 'Third Notice,' by the way, to please explain cuts from Phys Lab. It so happens that I have been to The Office at 1.45 every day except Fridays, since the receipt of the first notice. I have lectures at nine every day except Mondays, and at 1.45 there have been so many men waiting there that I have gotten cold feet each day. But today I waited.

"The wait in line was really quite interesting. At 1.46 a woman asked me where the Chemical Laboratories were. At 1.47 I had the pleasure of explaining the procedure for obtaining a ticket to a Lowell Institute course. At 1.48 I played the role of mail clerk for a minute. At 1.59, on finishing the answer to the thirteenth question, I gave up in despair and beat it for my two o'clock at the top of A. I succeded in seeing the door successfully closed with me on the outside. In the course of a few days there will of course be a few more notices."

"Why don't they have longer and more rational office hours around here anyway; times when the men have less to do than during the present hour," suggested Billiken.

"Most any time in the afternoon would hit me O. K." said Dick.

"Cupid opened his face to say merely, "The same here."


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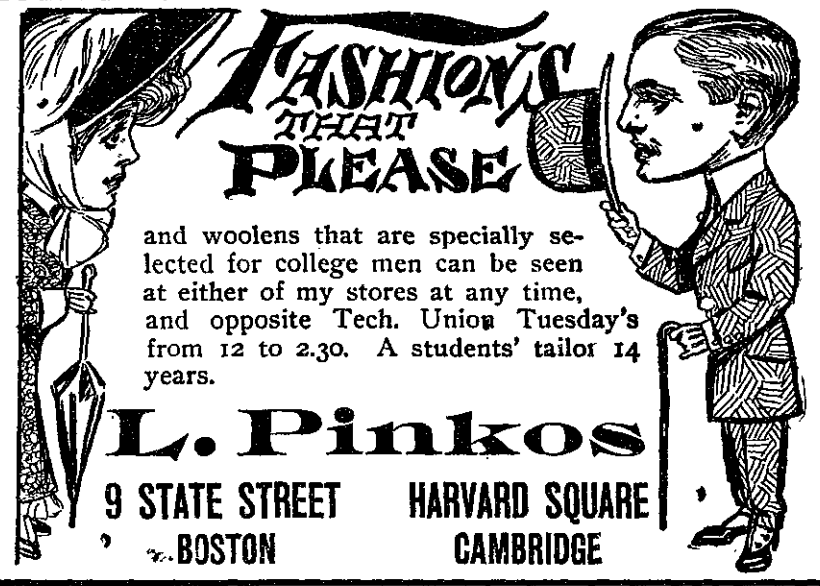


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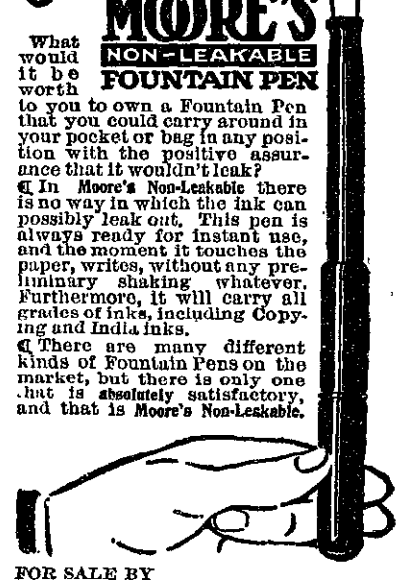
¶ There are many different kinds of Fountain Pens on the market, but there is only one that is absolutely satisfactory, and that is Moore's Non-Leakable.



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## PROF. SEDGWICK

(Continued from page 1.)

fore setting it free.

The third general item of wastes is the solid matter. In England all such matter is collected together and burned. Here, however, we separate or try to separate the matter in to incombustible and combustible matter and garbage. The first class includes ashes, bottles, glass, etc; the second, paper, excelsior, etc.; and the third, swill and refuse from food. The trouble with the attempt to divide the waste into three classes is that it is impossible to get complete or even good separation. As a result ashes often contain garbage and paper. Moreover, they contain about 30 percent. of coal which might be sifted out and given to the needy poor. This has been done for financial profit in some places. The mixture of garbage with ashes, however, is dangerous, for it has been in contact with persons who have contagious diseases. Waitresses have spread typhoid by means of food, and as the ashes are handled they tend to spread disease. At the dump in the Back Bay near Simmons College there are clouds of flies attracted by the garbage, and these carry infection. When ashes are dumped into the sea a large part, as garbage and paper, float away and are a nuisance. Liners and yachts have thrown their ashes and waste overboard and been objectionable on that account. Moreover, birds eat this garbage and then come and use our drinking fountains, polluting them with their feet.

Prof. Sedgwick closed his lecture by asking whether we did not expect too much of the city in expecting it to take away the ashes of large institutions. The health of the city should be cared for, but the economical question should be considered in order that the former may be more truly cared for.

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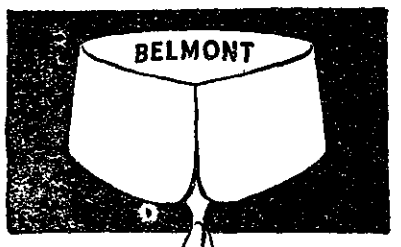
### WATKINS IS CAPTAIN.

Yesterday afternoon, Harold George Watkins 1912 was elected captain of the cross country team. Watkins comes from Wakefield, Mass. and is taking course XI. Although not running on the team until this fall, ever since he started running he has been identified as the best man for distance work in the 'stute.

HAT MAKERS
The Sphinx
The Mallory
Two and Three Dollars



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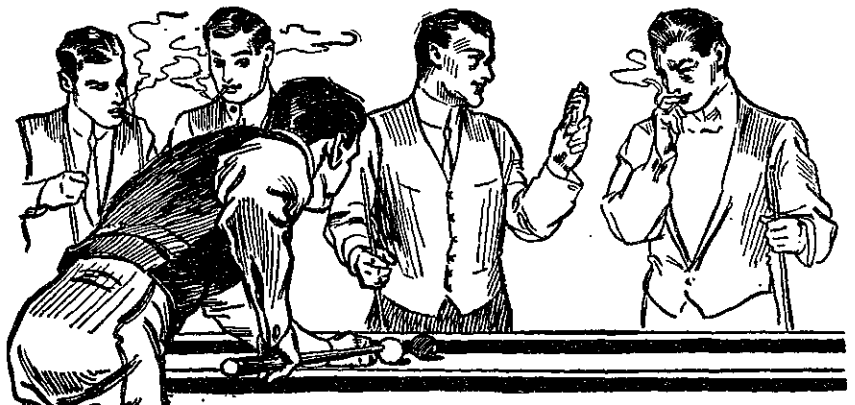

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## GENERAL NOTICES.

Course X. Hydraulics Lesson for Tuesday, Dec. 7, Arts 35-36-37.
58,59 GEO. E. RUSSELL.

Mr. W. H. Blood, Jr., Stone and Webster Corp., will address the Electrical Engineering Society on the subject "The Kind of Men Wanted as Electrical Engineers," Tuesday, Dec. 7. Meeting in the lower room of Union at 7.30.

The Point System Committee will consider suggestions regarding change in system made by authorized members of societies if received at P. O. Box 62, Back Bay Station before Tuesday, Dec. 7th.

PENNA CLUB.—There will be a dinner of the Penna Club at the Union Wednesday, Dec. 15, at 6.30. Tickets 50 cents. All men from Pennsylvania are urged to attend.

### HOCKEY.

Defence men practice at Gym on Wednesday at 4 P. M. Bring guards and sticks. 59,60

1910 Class meeting Friday, Dec. 10, in Huntington Hall at 1 o'clock. Everybody come. 59,60,61,62

1911.

Ballots for the Junior Prom. Committee election were mailed yesterday. Any men who did not receive them at heir home address, will doubtless find them at the Cage. If not, ask Charlie for a ballot.

Remember that the polls close Thursday, Dec. 9, at 4.00 P. M. Don't forget to vote!

1913.

Football team meet at Marcean, the photographer, 160 Tremont St., at 3.20 P. M. Wednesday, Des. 11th. Bring football togs.

1913.

Tickets for the 1913 Class dinner will be on sale at the Union between 1 and 2 today.. 59,60,61

### LOST.

In Eng. A or Lowell, Nov. 24, K. E. slide rule in leather case, both bearing L. S. W. Finder please leave at Cage.

### FOR SALE.

Pair of Barney & Berry best hockey skates, bolted to shoes size No. 8. Whole combination in excellent condition. For sale at a reasonable price. Leave note at Cage for Yereance or see him in the Tech office. 58,59,60,61


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